

10/581633

CLAIMS

1. (Canceled)

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2. (Cancelled)

3. (Amended) An optical recording disc constituted so that data can be recorded therein and reproduced therefrom by being irradiated with a laser beam, the optical recording disc comprising a laminated body formed by laminating a decomposition reaction layer containing platinum oxide as a primary component and a light absorbing layer so as to sandwich at least a dielectric layer, the decomposition reaction layer having a light absorption coefficient k equal to or larger than 0.75 and equal to or lower than 2.0.

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4. (Amended) An optical recording disc in accordance with Claim 3, wherein the decomposition reaction layer has a light absorption coefficient k equal to or lower than 1.0.

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5. (Cancelled)

6. (Amended) An optical recording disc in accordance with Claim 3, wherein when the decomposition reaction layer is irradiated with a laser beam, a bubble pit is formed in the decomposition reaction layer and fine particles of platinum precipitate in the bubble pit, whereby a recording mark is formed in the decomposition reaction layer.

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7. (Cancelled)

8. (Amended) An optical recording disc in accordance with Claim 3,
wherein the platinum oxide contained in the decomposition reaction layer
5 as a primary component is decomposed into platinum and oxygen when
the decomposition reaction layer is irradiated with the laser beam.

9. (Cancelled)

10 10. (Amended) An optical recording disc in accordance with Claim 3,
wherein the light absorption layer contains at least one of Sb and Te.

11. (Cancelled)

15 12. (Amended) An optical recording disc in accordance with Claim 3,
wherein the dielectric layer and the light absorption layer are deformed
when the bubble pit is formed in the decomposition reaction layer.

13. A method for manufacturing an optical recording disc comprising a
20 laminated body formed by laminating a decomposition reaction layer
containing platinum oxide PtOx as a primary component and a light
absorbing layer so as to sandwich at least a dielectric layer and
constituted so that data can be recorded therein and reproduced
therefrom by being irradiated with a laser beam, the method for
25 manufacturing an optical recording disc comprising steps of applying
power onto a target containing platinum as a primary component with a
power density smaller than 4 W/cm^2 in a sputtering gas atmosphere
containing oxygen in an amount of a flow ratio equal to or larger than

10 % and forming the decomposition reaction layer by a sputtering process.

14. (Amended) An optical recording disc in accordance with Claim 13,
5 wherein the decomposition reaction layer is formed by setting the power density to be smaller than 2 W/cm^2 .

15. (Amended) An optical recording disc in accordance with Claim 13,
wherein the decomposition reaction layer is formed by setting a pressure
10 in a chamber to be equal to or higher than 0.5 Pa when the sputtering gas is introduced into the chamber.

16. (Amended) An optical recording disc in accordance with Claim 13,
wherein the decomposition reaction layer is formed by setting a film
15 forming rate for forming the decomposition reaction layer to be lower than 250 Å/min .